

FIG. 1

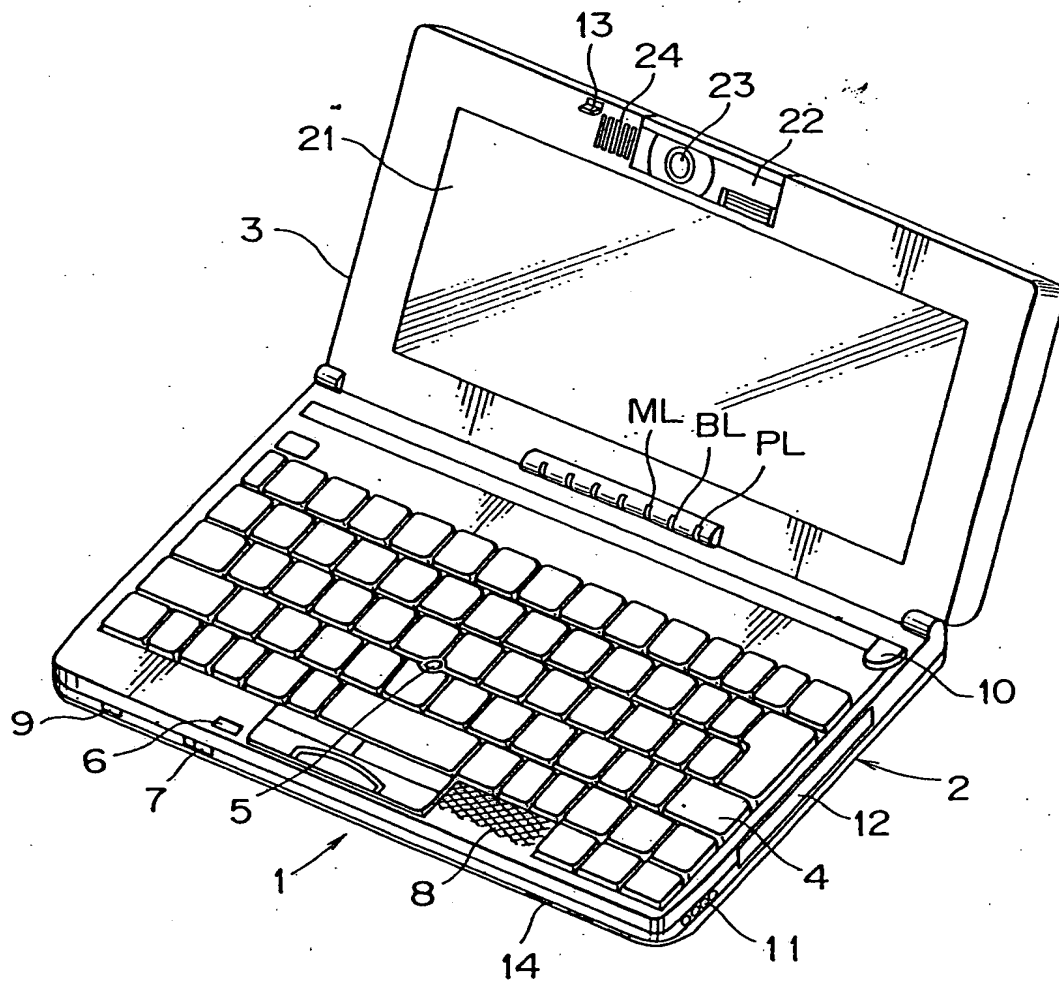


FIG. 2

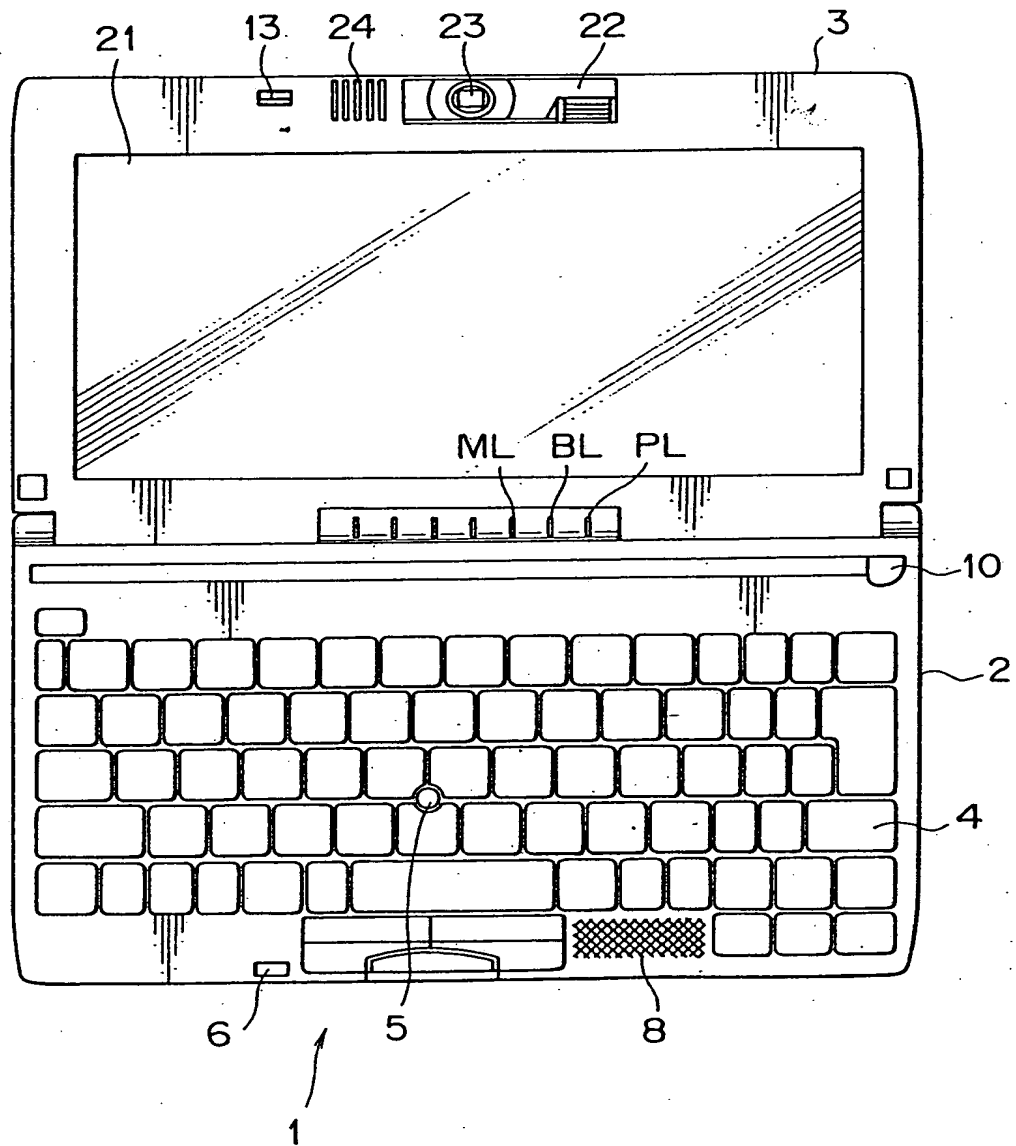


FIG. 3

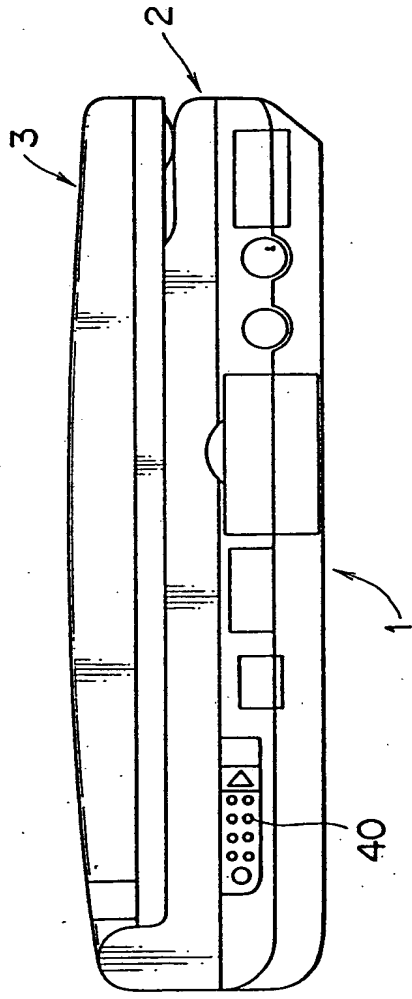


FIG. 4

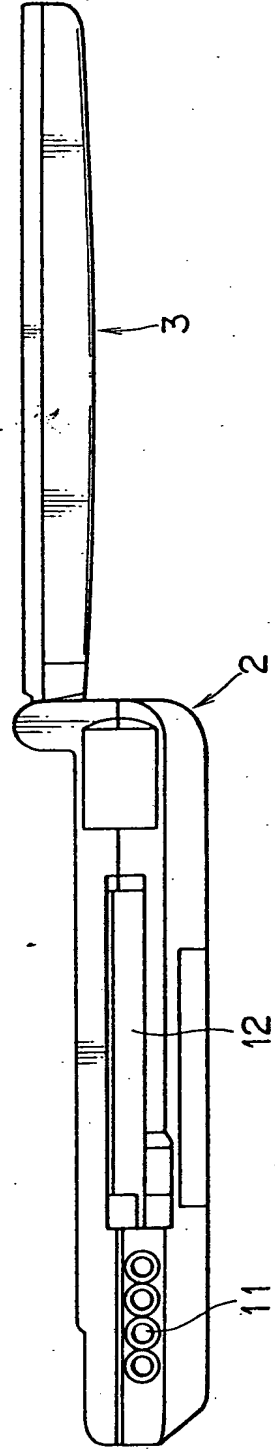


FIG. 5

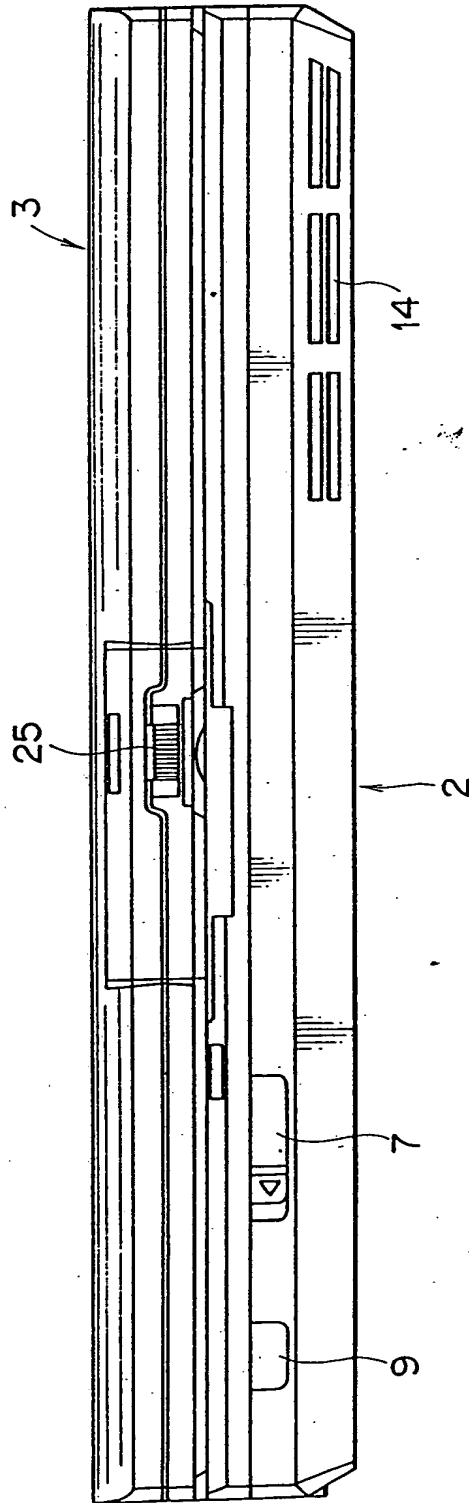


FIG. 6

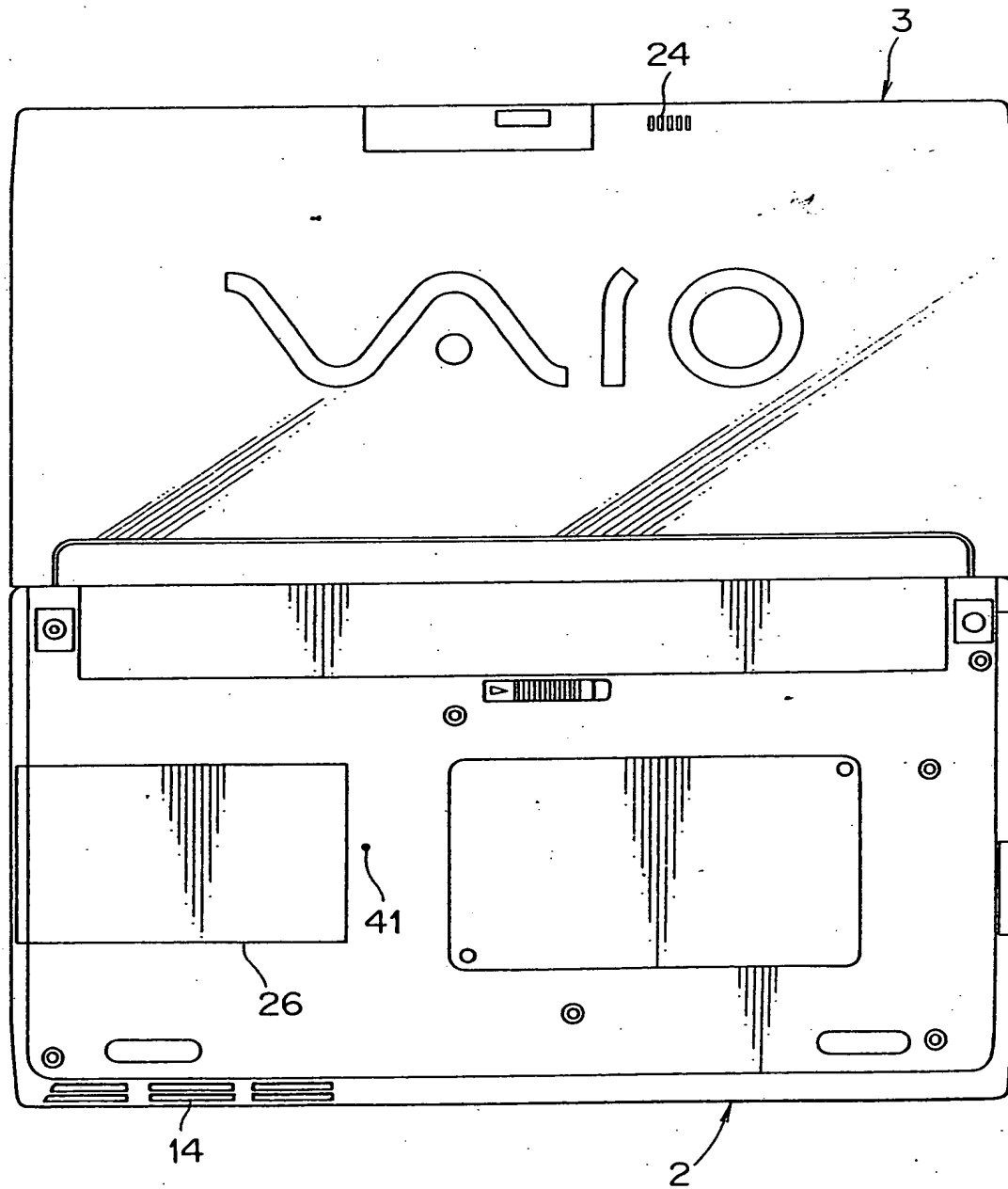


FIG. 7

The diagram illustrates a portable electronic device 1000, which is a handheld device with a display and various input/output components. The device is shown in a perspective view, with a dashed line indicating a cross-section or internal view.

Internal Components and Interconnections:

- CCD VIDEO CAMERA 23** is connected to a **PROCESSING BLOCK 82**.
- The **PROCESSING BLOCK 82** contains a **CPU 52** and a **PC CARD 53**.
- The **PC CARD 53** is connected to a **GRAPHICS CHIP 81**.
- The **GRAPHICS CHIP 81** is connected to a **VRAM 81A**.
- The **GRAPHICS CHIP 81** is connected to an **INTERNAL BUS (PCI BUS) 51**.
- The **INTERNAL BUS 51** is connected to a **RAM 54**, which includes **54A** (ELECTRONIC MAIL PROGRAM), **54B** (AUTO PILOT PROGRAM), and **54C** (OS).
- The **INTERNAL BUS 51** is also connected to an **EXTERNAL BUS (ISA BUS) 55**.
- The **EXTERNAL BUS 55** is connected to an **HDD 56**, which includes **56A** (ELECTRONIC MAIL PROGRAM), **56B** (AUTO PILOT PROGRAM), and **56C** (OS).
- The **EXTERNAL BUS 55** is connected to an **RTC (Real - Time clock) 75**.
- The **EXTERNAL BUS 55** is connected to a **KEY - INPUT MONITOR 70** and a **KEY - INPUT STATUS REGISTER 64**.
- The **EXTERNAL BUS 55** is connected to a **LED CONTROL PROGRAM 71** and a **LED CONTROL REGISTER 66**.
- The **EXTERNAL BUS 55** is connected to a **SETTING TIME REGISTER 67**.
- The **EXTERNAL BUS 55** is connected to a **KEY - INPUT MONITOR 70** and a **KEY - INPUT STATUS REGISTER 64**.
- The **EXTERNAL BUS 55** is connected to a **LED CONTROL PROGRAM 71** and a **LED CONTROL REGISTER 66**.
- The **EXTERNAL BUS 55** is connected to a **SETTING TIME REGISTER 67**.

External Components and Interconnections:

- The **INTERNAL BUS 51** is connected to a **KEYBOARD CONTROLLER 4**.
- The **KEYBOARD CONTROLLER 4** is connected to a **KEYBOARD 72**.
- The **INTERNAL BUS 51** is connected to a **STICK TYPE POINTING DEVICE CONTROLLER 5**.
- The **STICK TYPE POINTING DEVICE CONTROLLER 5** is connected to a **STICK TYPE POINTING DEVICE 76**.
- The **INTERNAL BUS 51** is connected to a **SOUND CHIP 60**.
- The **SOUND CHIP 60** is connected to a **SPEAKER 8** and a **MICROPHONE 24**.
- The **INTERNAL BUS 51** is connected to a **MODEM 50**.
- The **MODEM 50** is connected to a **TELEPHONE LINE 90**.
- The **MODEM 50** is connected to a **PROVIDER 91**.
- The **MODEM 50** is connected to a **MAIL SERVER 93**.
- The **MODEM 50** is connected to a **MAIL BOX 93A**.
- The **MODEM 50** is connected to **THE INTERNET 92**.
- The **MODEM 50** is connected to a **BACKLIGHT 84**.
- The **MODEM 50** is connected to a **LCD 83**.
- The **MODEM 50** is connected to a **LCD CONTROLLER 81**.
- The **MODEM 50** is connected to a **KEY - INPUT MONITOR 70** and a **KEY - INPUT STATUS REGISTER 64**.
- The **MODEM 50** is connected to a **LED CONTROL PROGRAM 71** and a **LED CONTROL REGISTER 66**.
- The **MODEM 50** is connected to a **SETTING TIME REGISTER 67**.

Other Components:

- ROM 69** (Read Only Memory) is connected to the **INTERNAL BUS 51**.
- BIOS 73** (Basic Input/Output System) is connected to the **INTERNAL BUS 51**.
- WAKEUP PROGRAM 70** is connected to the **INTERNAL BUS 51**.
- CPU 63** (Central Processing Unit) is connected to the **INTERNAL BUS 51**.
- RAM 64** (Random Access Memory) is connected to the **INTERNAL BUS 51**.
- KEY - INPUT MONITOR 70** is connected to the **INTERNAL BUS 51**.
- KEY - INPUT STATUS REGISTER 64** is connected to the **INTERNAL BUS 51**.
- LED CONTROL PROGRAM 71** is connected to the **INTERNAL BUS 51**.
- LED CONTROL REGISTER 66** is connected to the **INTERNAL BUS 51**.
- SETTING TIME REGISTER 67** is connected to the **INTERNAL BUS 51**.
- RTC (Real - Time clock) 75** is connected to the **INTERNAL BUS 51**.
- KEYBOARD CONTROLLER 4** is connected to the **INTERNAL BUS 51**.
- STICK TYPE POINTING DEVICE CONTROLLER 5** is connected to the **INTERNAL BUS 51**.
- SOUND CHIP 60** is connected to the **INTERNAL BUS 51**.
- MODEM 50** is connected to the **INTERNAL BUS 51**.
- BACKLIGHT 84** is connected to the **INTERNAL BUS 51**.
- LCD 83** is connected to the **INTERNAL BUS 51**.
- LCD CONTROLLER 81** is connected to the **INTERNAL BUS 51**.
- KEY - INPUT MONITOR 70** is connected to the **INTERNAL BUS 51**.
- KEY - INPUT STATUS REGISTER 64** is connected to the **INTERNAL BUS 51**.
- LED CONTROL PROGRAM 71** is connected to the **INTERNAL BUS 51**.
- LED CONTROL REGISTER 66** is connected to the **INTERNAL BUS 51**.
- SETTING TIME REGISTER 67** is connected to the **INTERNAL BUS 51**.
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- BACKLIGHT 84** is connected to the **INTERNAL BUS 51**.
- LCD 83** is connected to the **INTERNAL BUS 51**.
- LCD CONTROLLER 81** is connected to the **INTERNAL BUS 51**.

Power and Timing:

- The device is powered by a **BATTERY 74**.
- The device is connected to a **PL 87** (Power Line).
- The device is connected to a **BL 85** (Backlight).
- The device is connected to a **ML 86** (Main Line).
- The device is connected to a **77** (Ground).
- The device is connected to a **40** (Antenna).
- The device is connected to a **9** (Speaker).
- The device is connected to a **87** (Microphone).
- The device is connected to a **85** (Backlight).
- The device is connected to a **86** (Main Line).
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- The device is

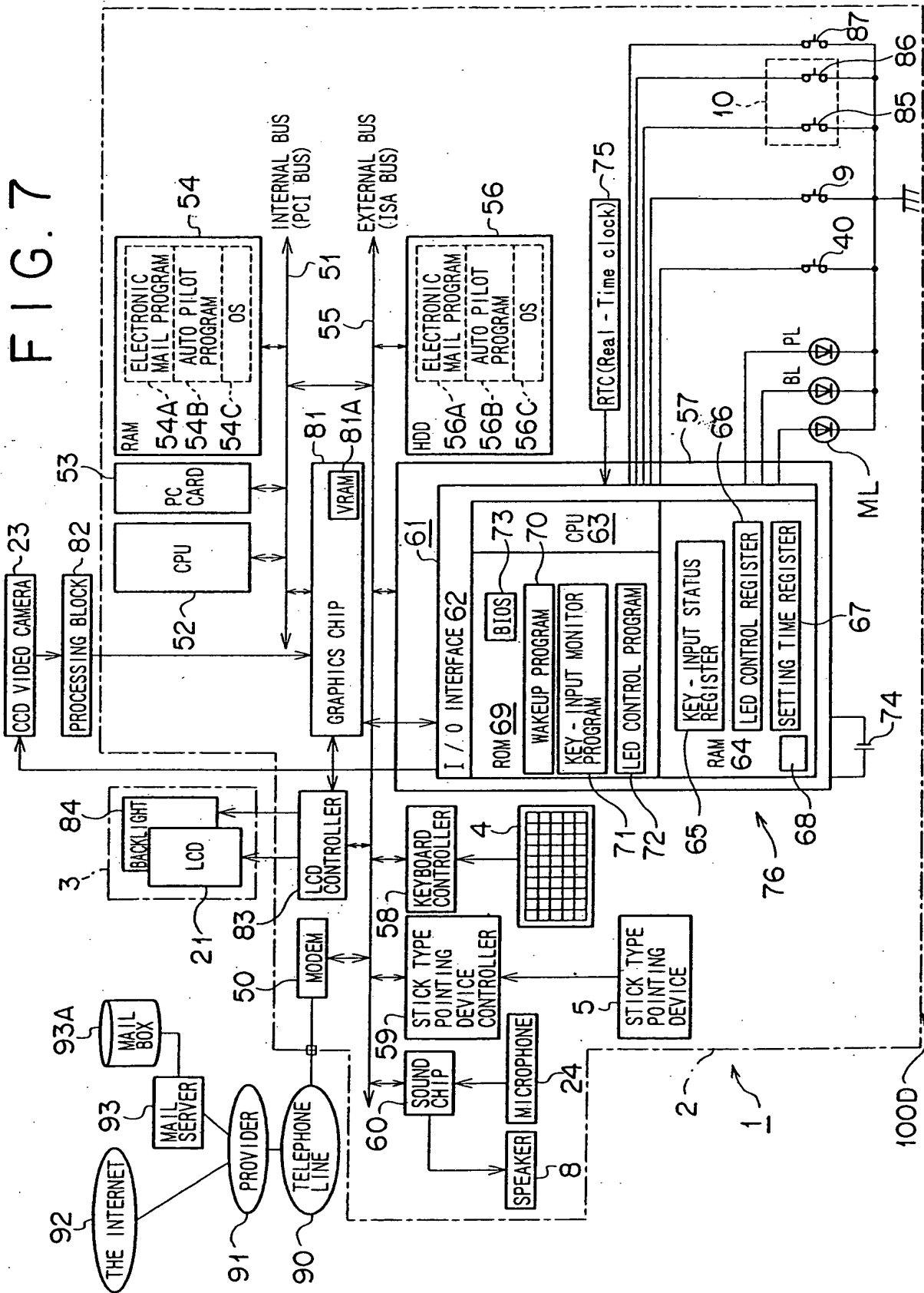


FIG. 8

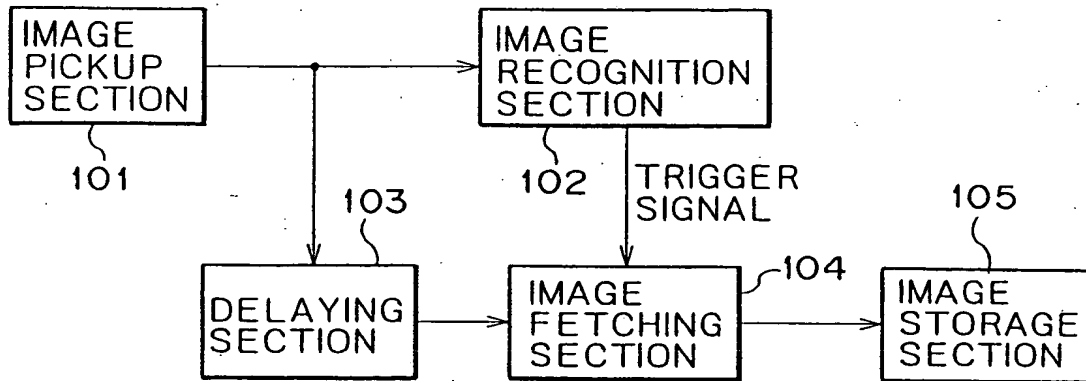


FIG. 9

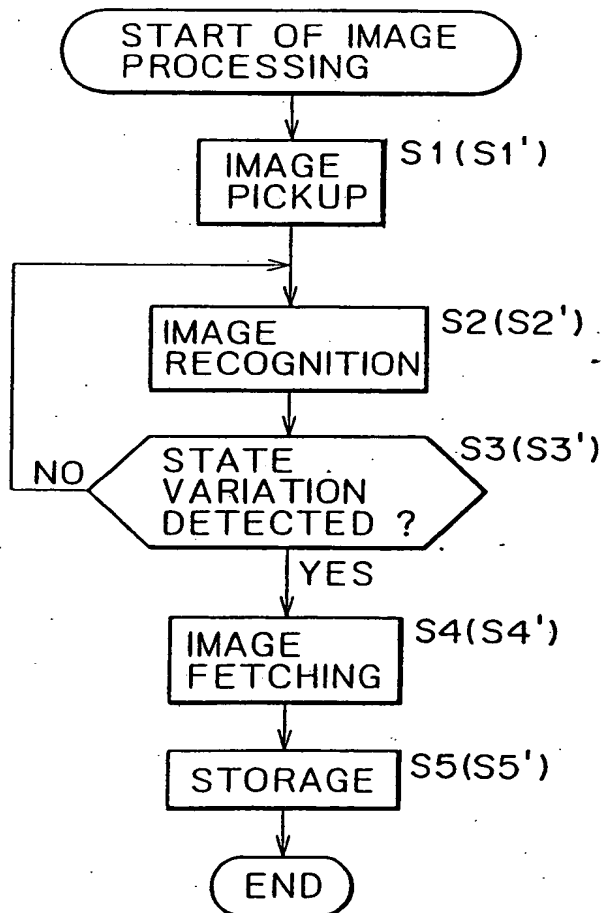


FIG. 10

